FIG.1

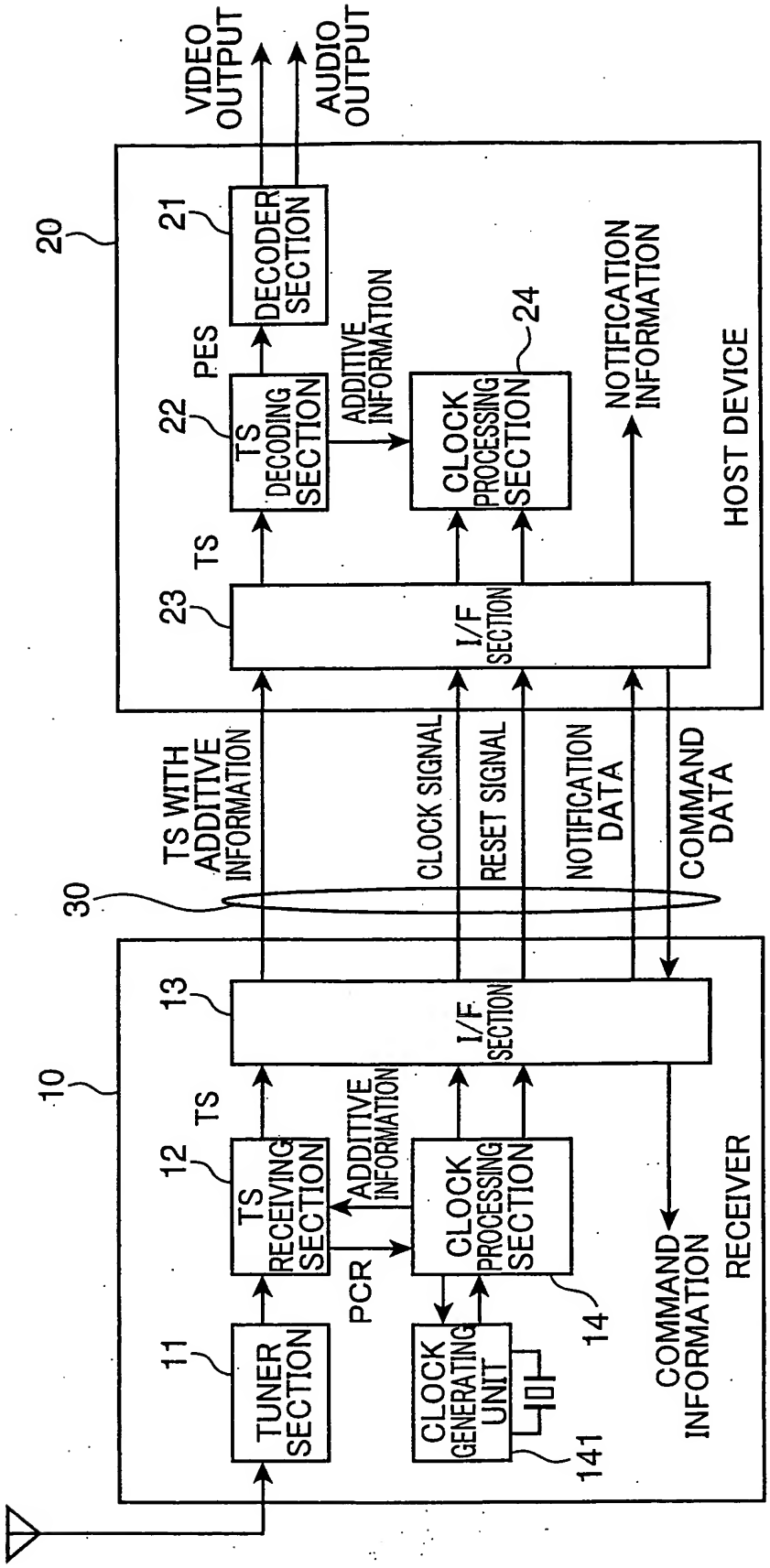
VIDEO OUTPUT
AUDIO OUTPUT
20
21
DECODER SECTION
PES
22
TS DECODING SECTION
ADDITIVE INFORMATION
24
CLOCK PROCESSING SECTION
NOTIFICATION INFORMATION
HOST DEVICE
TS
23
I/F SECTION
TS WITH ADDITIVE INFORMATION
CLOCK SIGNAL
RESET SIGNAL
NOTIFICATION DATA
COMMAND DATA
30
10
13
I/F SECTION
TS
12
TS RECEIVING SECTION
ADDITIVE INFORMATION
CLOCK PROCESSING SECTION
PCR
14
11
TUNER SECTION
CLOCK GENERATING UNIT
141
COMMAND INFORMATION
RECEIVER

FIG.2

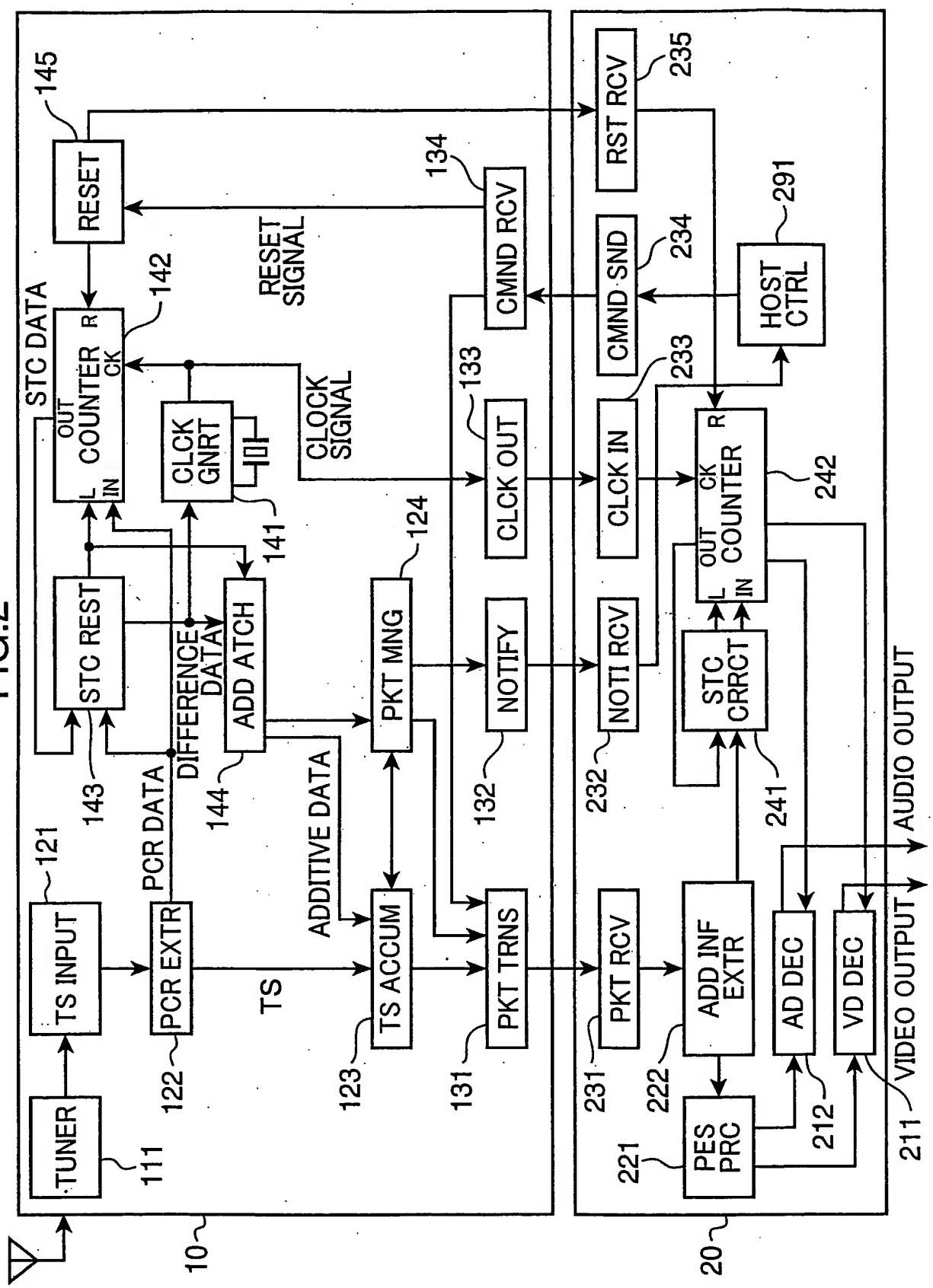
10
20
TUNER
111
TS INPUT
121
PCR EXTR
122
TS
PCR DATA
DIFFERENCE DATA
ADDITIVE DATA
TS ACCUM
123
PKT TRNS
131
NOTIFY
132
CLCK OUT
133
CMND RCV
134
RESET
145
RESET SIGNAL
STC DATA
COUNTER
OUT
IN
R
CK
142
CLOCK SIGNAL
CLCK GNRT
141
STC REST
143
ADD ATCH
144
PKT MNG
124
PKT RCV
231
NOTI RCV
232
CLCK IN
233
CMND SND
234
RST RCV
235
ADD INF EXTR
222
PES PRC
221
AD DEC
212
VD DEC
211
VIDEO OUTPUT
AUDIO OUTPUT
STC CRRCT
241
COUNTER
242
HOST CTRL
291

FIG.3

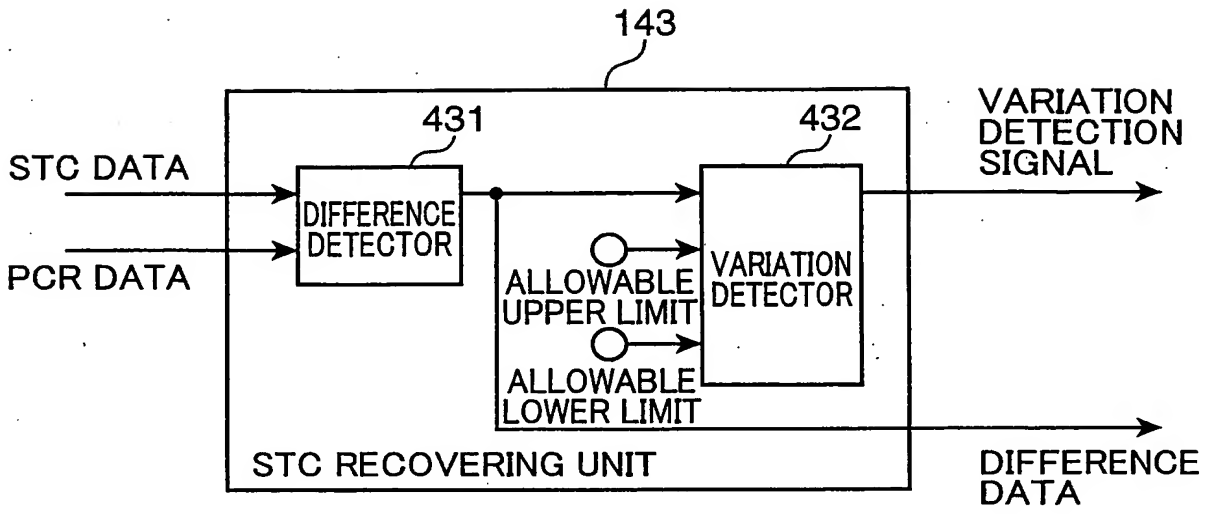

FIG.4

TS1(188BYTE)
TS2(188BYTE)
TS3(188BYTE)
TS4(188BYTE)
TS5(188BYTE)
ADDITIVE DATA: VALID FLAG & VARIATION INFORMATION DATA

FIG.5

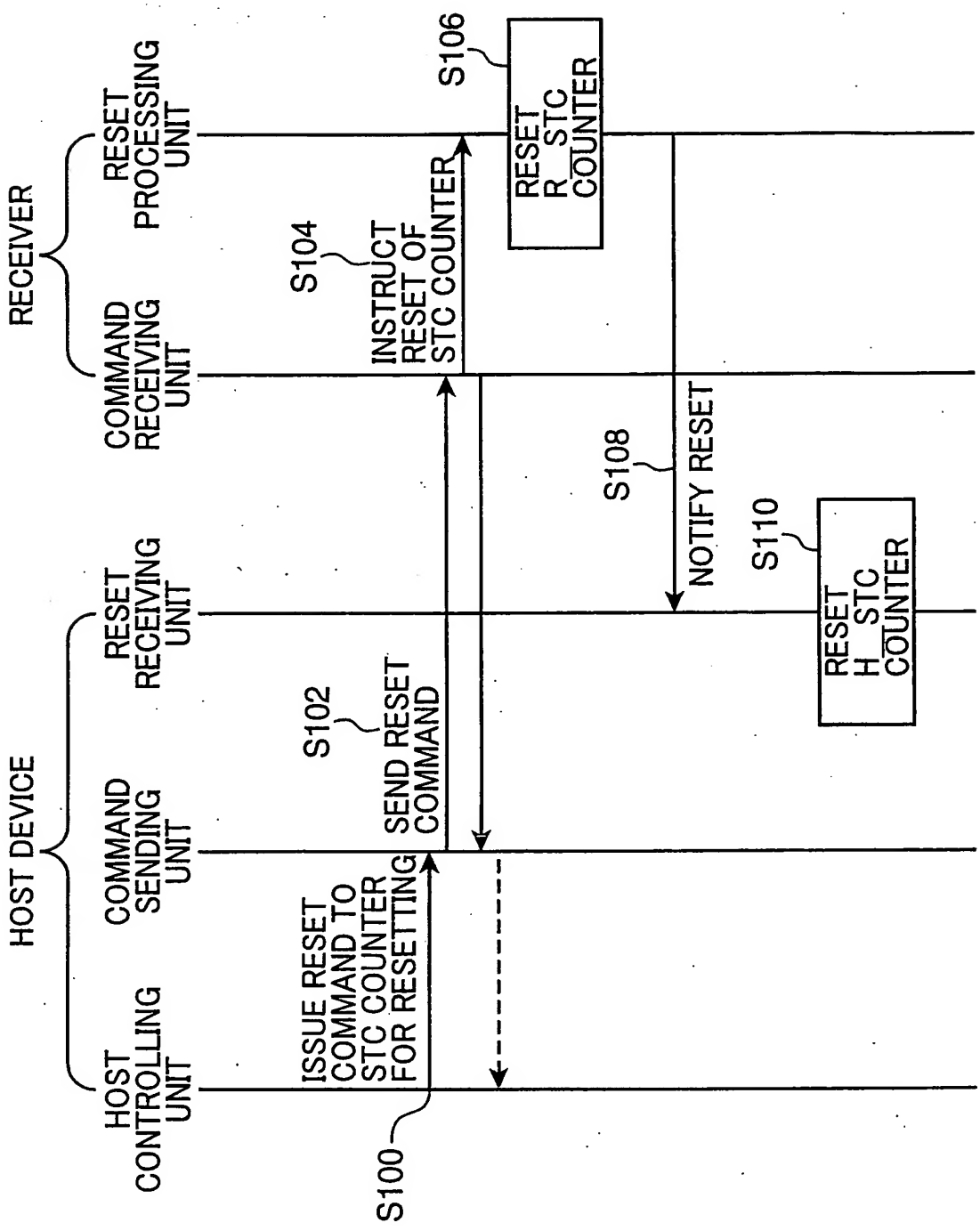
HOST DEVICE
RECEIVER
HOST CONTROLLING UNIT
COMMAND SENDING UNIT
RESET RECEIVING UNIT
COMMAND RECEIVING UNIT
RESET PROCESSING UNIT
S100
ISSUE RESET COMMAND TO STC COUNTER FOR RESETTING
S102
SEND RESET COMMAND
S104
INSTRUCT RESET OF STC COUNTER
S106
RESET R_STC COUNTER
S108
NOTIFY RESET
S110
RESET H_STC COUNTER

FIG.6

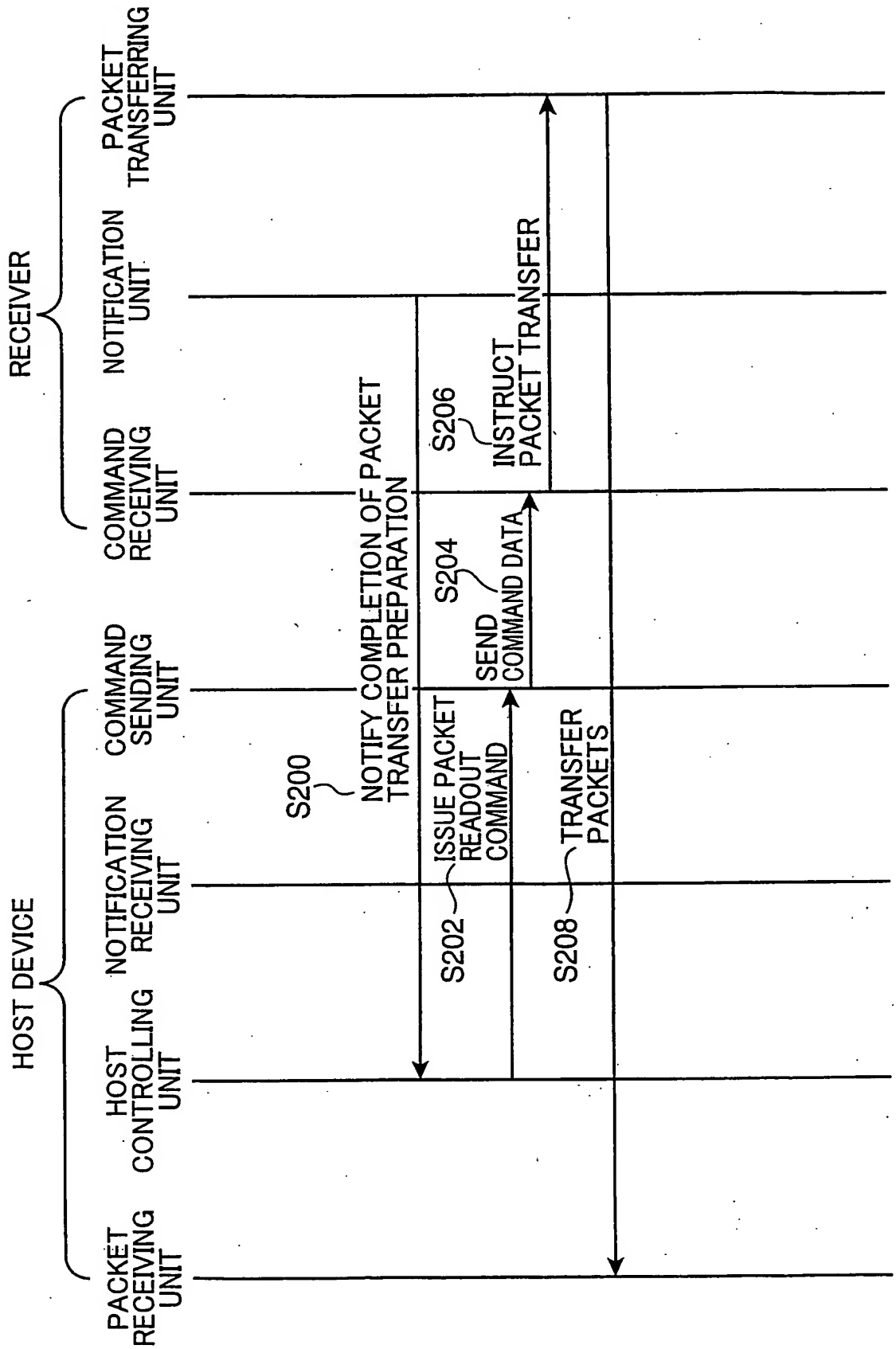
HOST DEVICE
RECEIVER
PACKET RECEIVING UNIT
HOST CONTROLLING UNIT
NOTIFICATION RECEIVING UNIT
COMMAND SENDING UNIT
COMMAND RECEIVING UNIT
NOTIFICATION UNIT
PACKET TRANSFERRING UNIT
S200
NOTIFY COMPLETION OF PACKET TRANSFER PREPARATION
S202
ISSUE PACKET READOUT COMMAND
S204
SEND COMMAND DATA
S206
INSTRUCT PACKET TRANSFER
S208
TRANSFER PACKETS

FIG.7

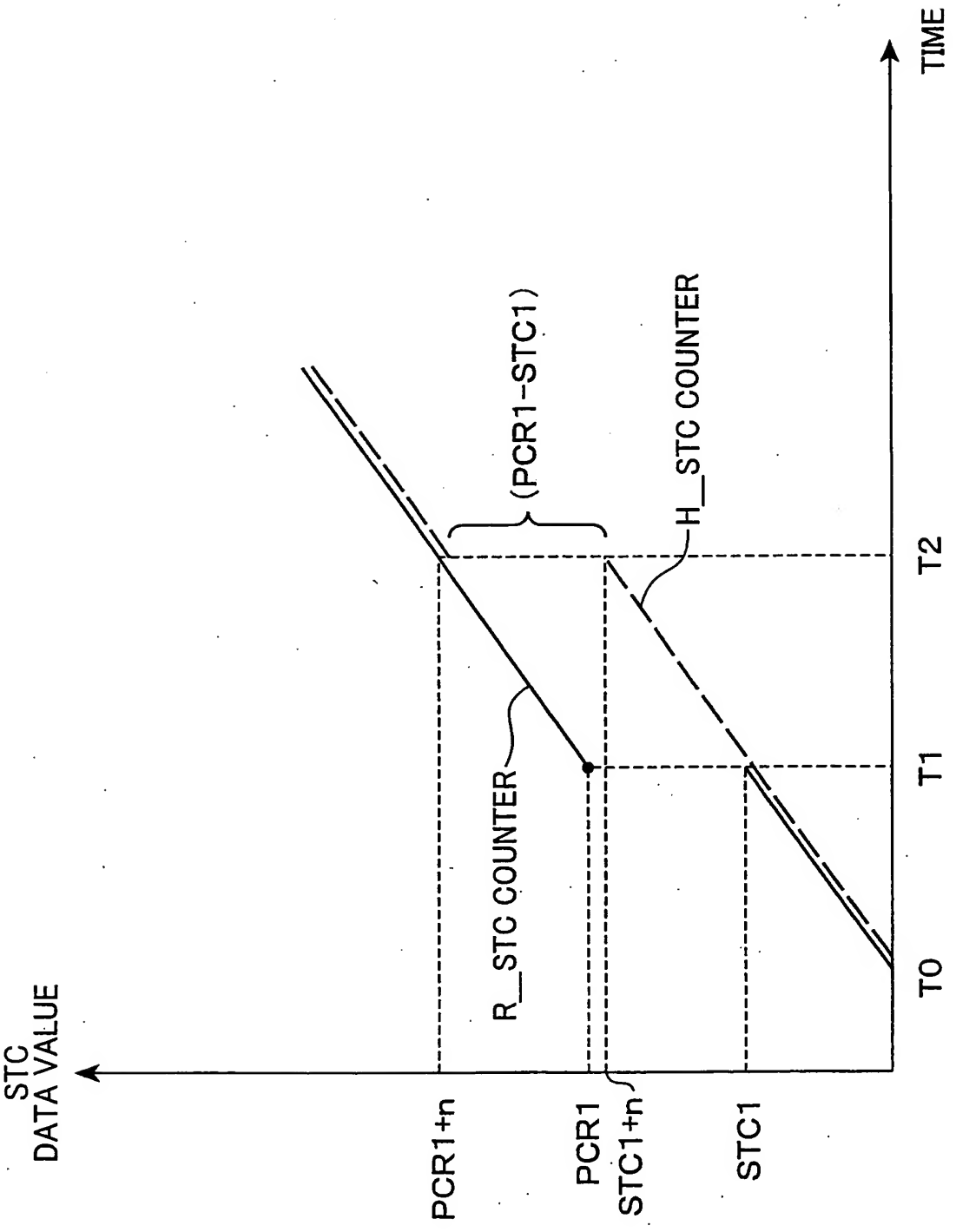
STC
DATA VALUE
TIME
T0
T1
T2
PCR1+n
PCR1
STC1+n
STC1
R_STC COUNTER
H_STC COUNTER
(PCR1-STC1)

FIG.8

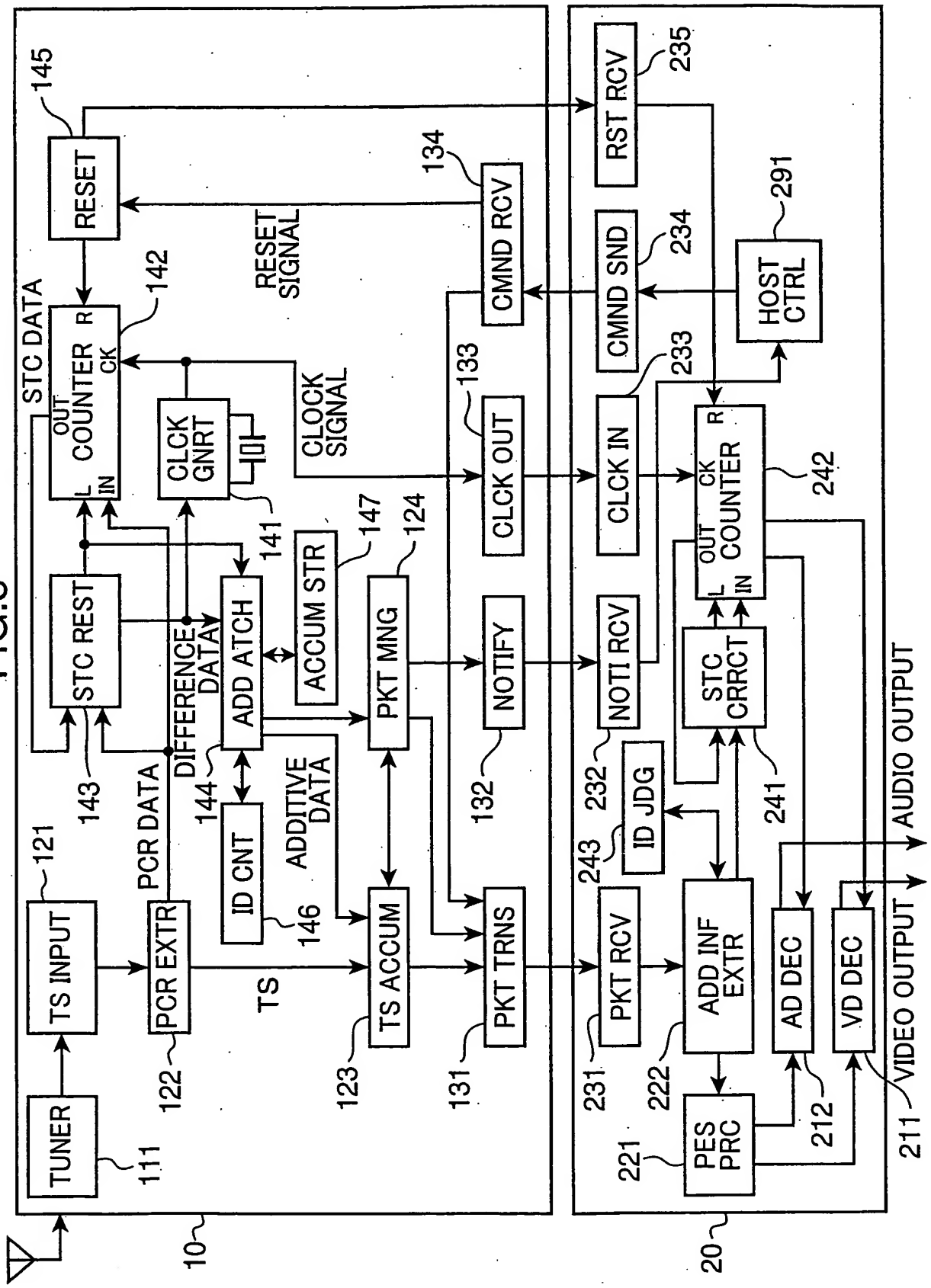
TUNER
111
TS INPUT
121
PCR EXTR
122
PCR DATA
TS
STC REST
143
STC DATA
COUNTER
OUT
IN
R
CK
142
RESET
145
CLCK GNRT
141
DIFFERENCE DATA
ADD ATCH
144
ID CNT
146
ADDITIVE DATA
ACCUM STR
147
PKT MNG
124
TS ACCUM
123
PKT TRNS
131
NOTIFY
132
CLCK OUT
133
CMND RCV
134
RESET SIGNAL
CLOCK SIGNAL
10
RST RCV
235
CMND SND
234
HOST CTRL
291
CLCK IN
233
COUNTER
242
NOTI RCV
232
ID JDG
243
STC CRRCT
241
PKT RCV
231
ADD INF EXTR
222
PES PRC
221
AD DEC
212
VD DEC
211
VIDEO OUTPUT
AUDIO OUTPUT
20

FIG.9

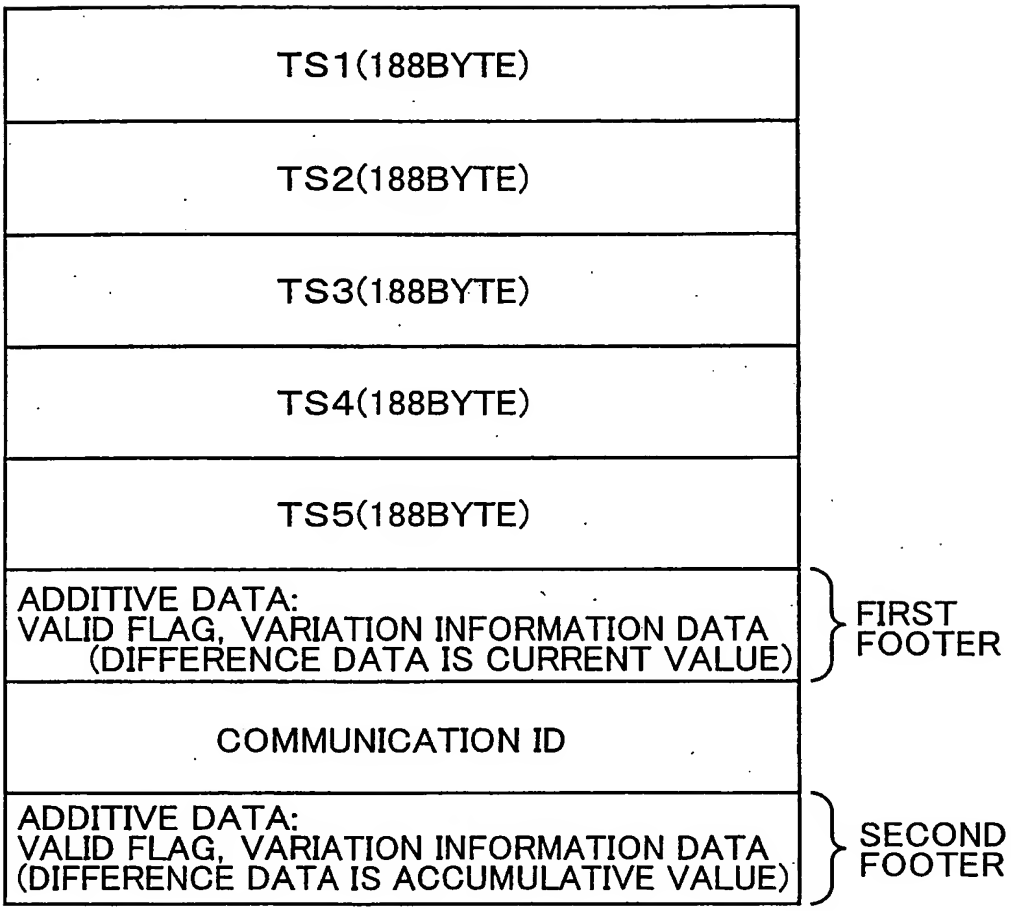
TS1(188BYTE)
TS2(188BYTE)
TS3(188BYTE)
TS4(188BYTE)
TS5(188BYTE)
ADDITIVE DATA:
VALID FLAG, VARIATION INFORMATION DATA
(DIFFERENCE DATA IS CURRENT VALUE)
FIRST FOOTER
COMMUNICATION ID
ADDITIVE DATA:
VALID FLAG, VARIATION INFORMATION DATA
(DIFFERENCE DATA IS ACCUMULATIVE VALUE)
SECOND FOOTER

FIG.10

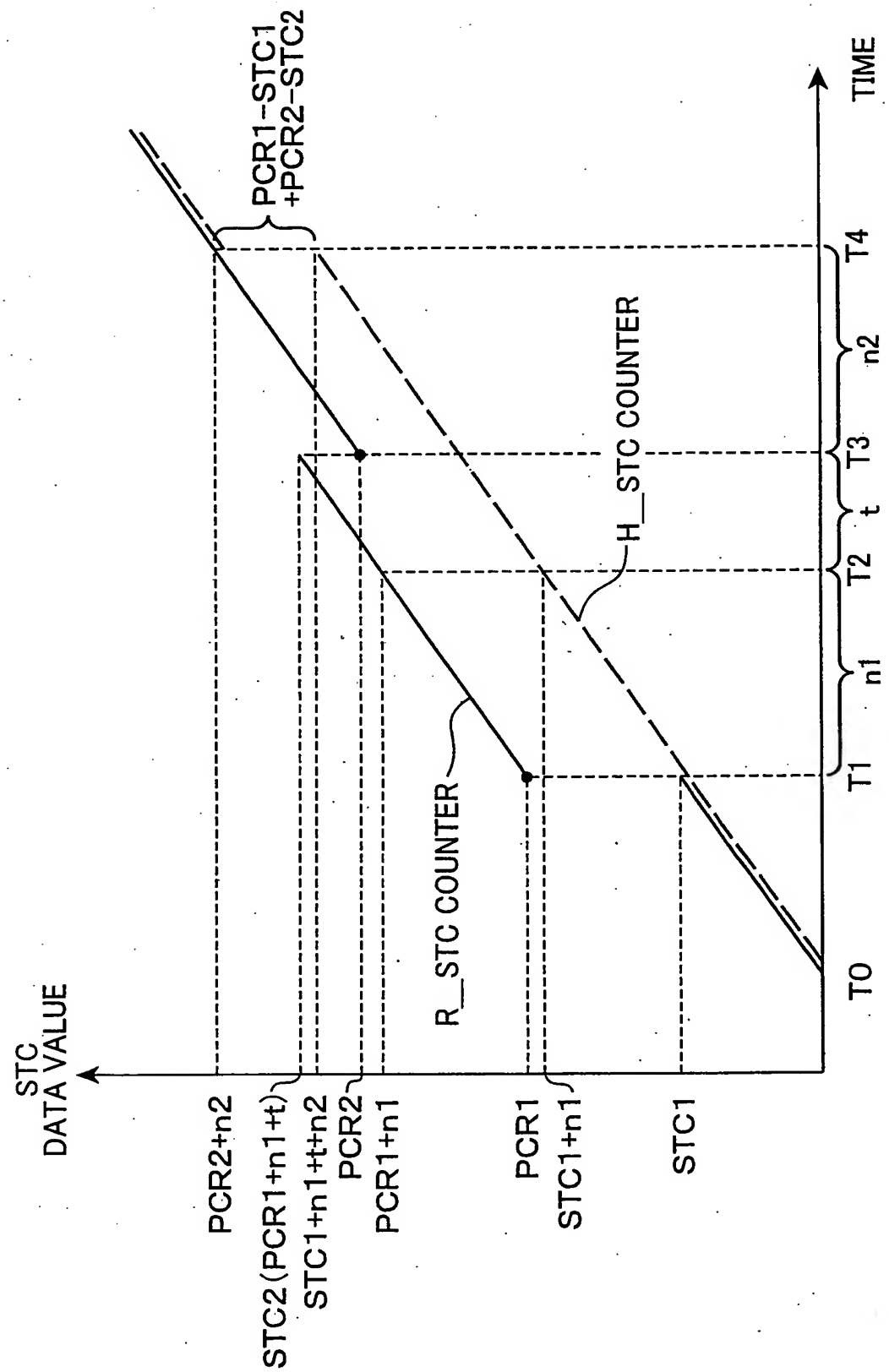
STC
DATA VALUE
TIME
PCR2+n2
STC2(PCR1+n1+t)
STC1+n1+t+n2
PCR2
PCR1+n1
PCR1
STC1+n1
STC1
R_STC COUNTER
H_STC COUNTER
PCR1-STC1
+PCR2-STC2
T0
T1
T2
T3
T4
n1
t
n2

FIG.11

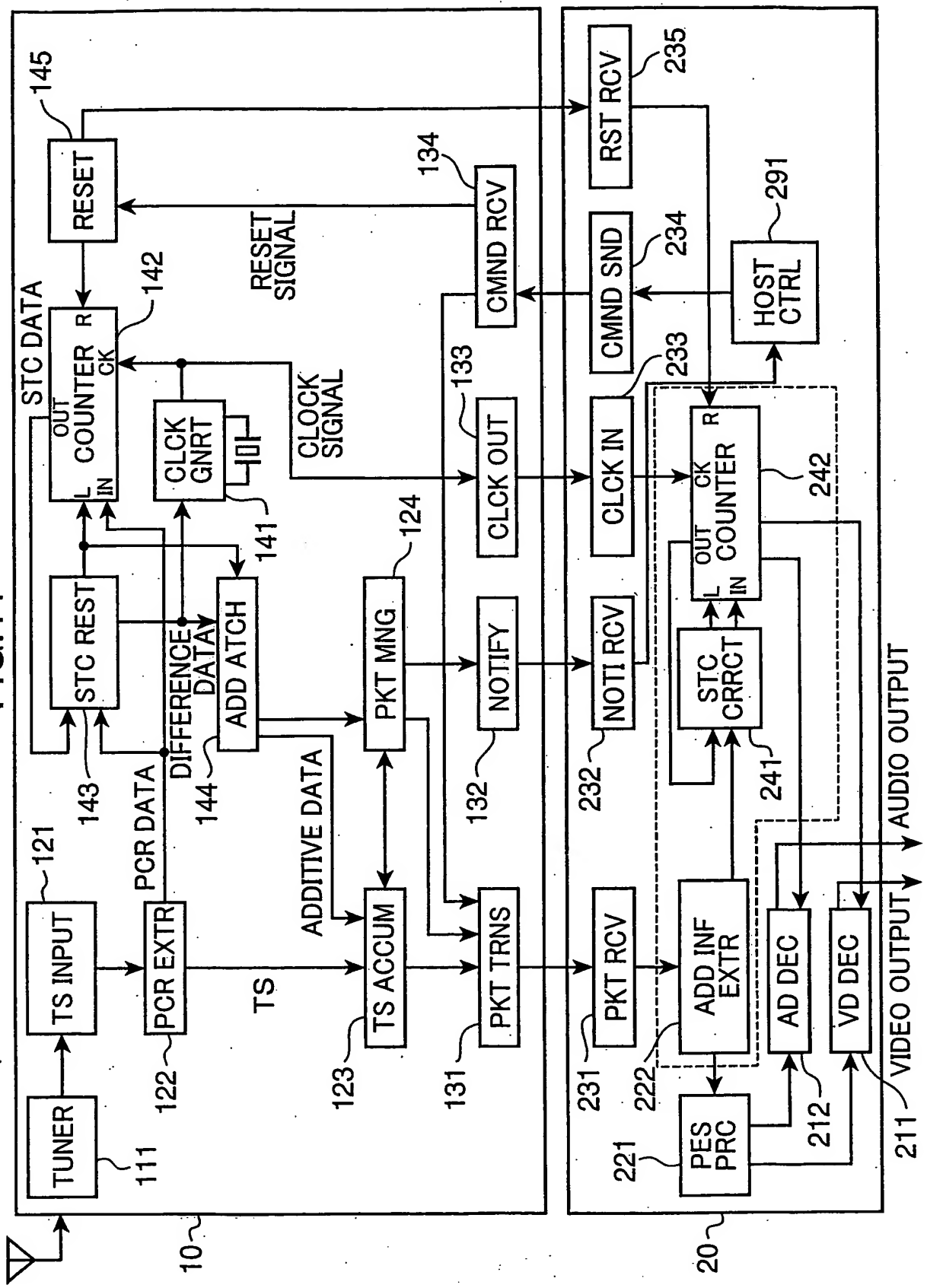
TUNER
111
TS INPUT
121
PCR EXTR
122
PCR DATA
TS
ADDITIVE DATA
TS ACCUM
123
PKT TRNS
131
PKT MNG
124
NOTIFY
132
ADD ATCH
144
DIFFERENCE DATA
STC REST
143
STC DATA
OUT COUNTER R CK L IN
142
CLCK GNRT
141
RESET
145
RESET SIGNAL
CMND RCV
134
CLCK OUT
133
CLOCK SIGNAL
10
PKT RCV
231
NOTI RCV
232
CLCK IN
233
CMND SND
234
RST RCV
235
PES PRC
221
222
ADD INF EXTR
AD DEC
212
VD DEC
211
VIDEO OUTPUT
AUDIO OUTPUT
STC CRRCT
241
OUT COUNTER CK R L IN
242
HOST CTRL
291
20

FIG.12

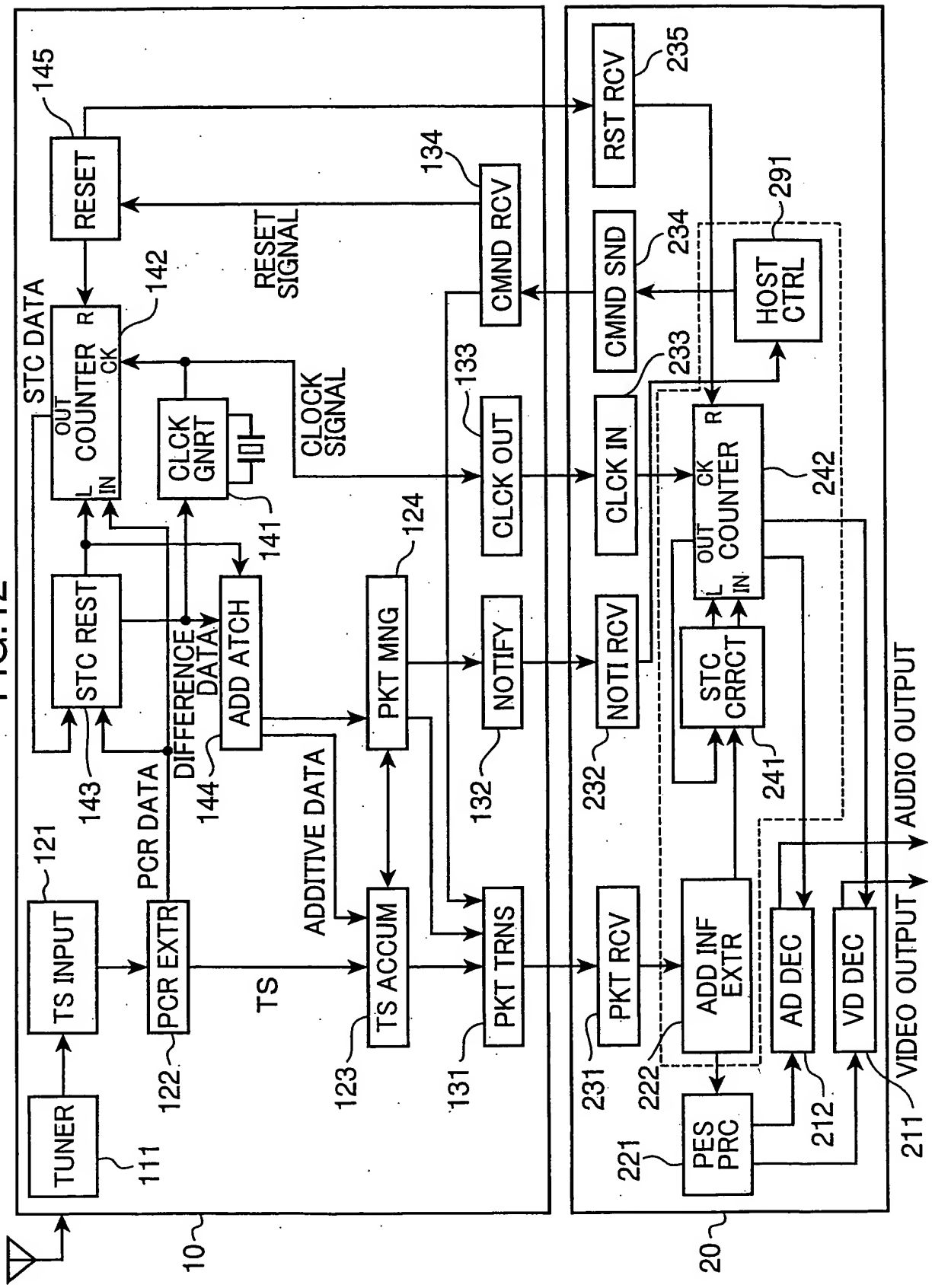
TUNER
111
TS INPUT
121
PCR EXTR
122
TS
PCR DATA
DIFFERENCE DATA
ADDITIVE DATA
TS ACCUM
123
PKT TRNS
131
PKT MNG
124
ADD ATCH
144
STC REST
143
141
CLCK GNRT
CLOCK SIGNAL
RESET SIGNAL
RESET
145
STC DATA
COUNTER
OUT
IN
L
R
CK
142
CLCK OUT
133
NOTIFY
132
CMND RCV
134
10
PKT RCV
231
ADD INF EXTR
222
PES PRC
221
AD DEC
212
VD DEC
211
VIDEO OUTPUT
AUDIO OUTPUT
NOTI RCV
232
STC CRRCT
241
COUNTER
242
CLCK IN
233
CMND SND
234
RST RCV
235
HOST CTRL
291
20

FIG.13

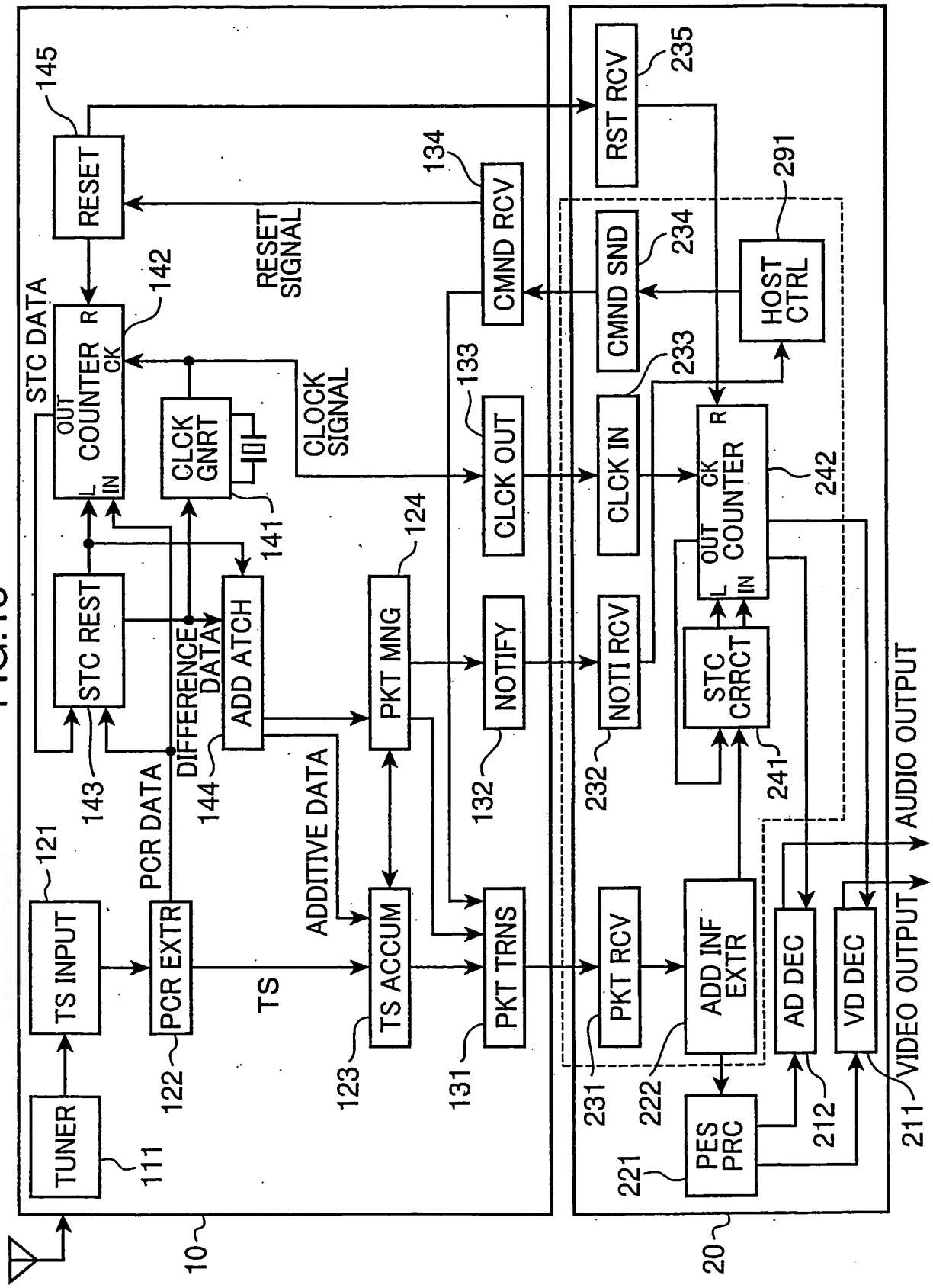
TUNER
111
TS INPUT
121
PCR EXTR
122
TS
PCR DATA
143
STC REST
ADD ATCH
144
DIFFERENCE DATA
ADDITIVE DATA
TS ACCUM
123
PKT MNG
124
PKT TRNS
131
NOTIFY
132
CLCK OUT
133
CMND RCV
134
RESET
145
RESET SIGNAL
STC DATA
COUNTER
142
CLCK GNRT
141
CLOCK SIGNAL
10
PKT RCV
231
NOTI RCV
232
CLCK IN
233
CMND SND
234
RST RCV
235
ADD INF EXTR
222
PES PRC
221
STC CRRCT
241
COUNTER
242
HOST CTRL
291
AD DEC
212
VD DEC
211
VIDEO OUTPUT
AUDIO OUTPUT
20

FIG.14

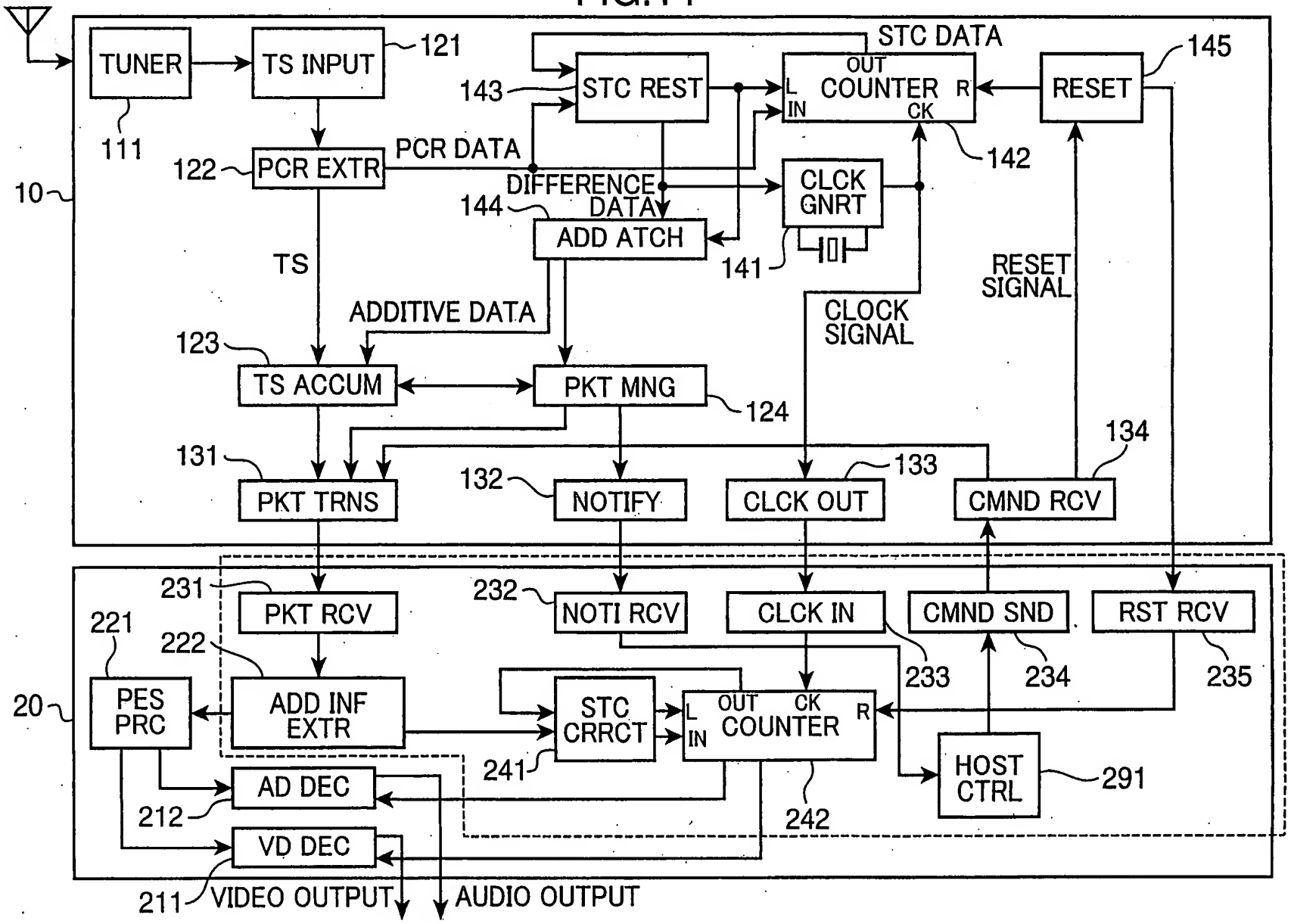
TUNER
TS INPUT
121
111
10
122
PCR EXTR
PCR DATA
STC DATA
143
STC REST
OUT
L
IN
COUNTER
R
CK
142
RESET
145
DIFFERENCE DATA
144
ADD ATCH
CLCK GNRT
141
TS
ADDITIVE DATA
RESET SIGNAL
CLOCK SIGNAL
123
TS ACCUM
PKT MNG
124
131
PKT TRNS
132
NOTIFY
CLCK OUT
133
CMND RCV
134
231
PKT RCV
232
NOTI RCV
CLCK IN
CMND SND
RST RCV
221
222
233
234
235
20
PES PRC
ADD INF EXTR
STC CRRCT
OUT
CK
L
IN
COUNTER
R
241
HOST CTRL
291
AD DEC
212
242
VD DEC
211
VIDEO OUTPUT
AUDIO OUTPUT

FIG.15

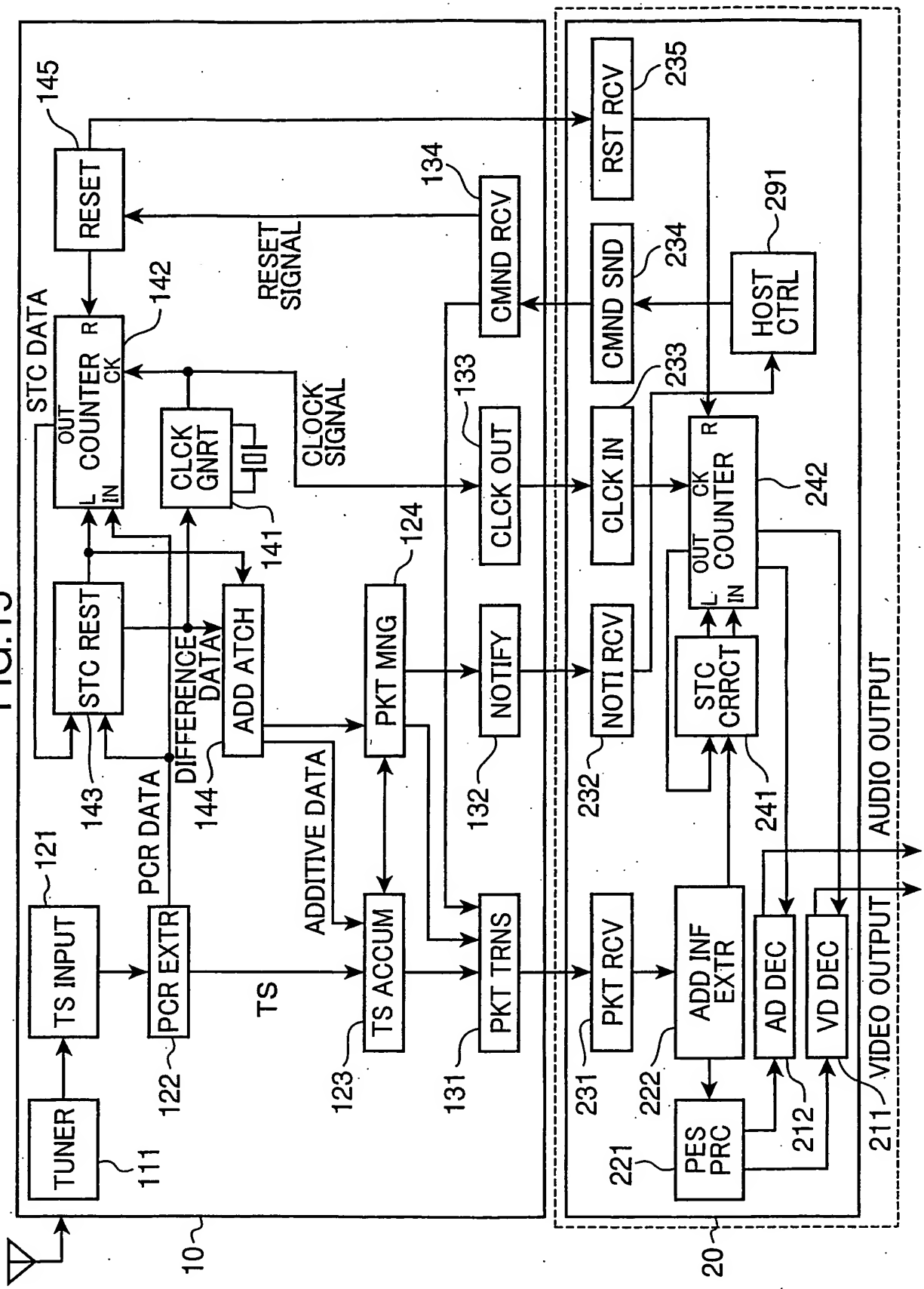
TUNER
111
TS INPUT
121
PCR EXTR
122
PCR DATA
TS
TS ACCUM
123
ADDITIVE DATA
PKT TRNS
131
NOTIFY
132
CLCK OUT
133
CMND RCV
134
RESET
145
RESET SIGNAL
STC DATA
COUNTER
142
CLCK GNRT
141
CLOCK SIGNAL
STC REST
143
DIFFERENCE DATA
ADD ATCH
144
PKT MNG
124
10
PKT RCV
231
NOTI RCV
232
CLCK IN
233
CMND SND
234
RST RCV
235
HOST CTRL
291
STC CRRCT
241
COUNTER
242
ADD INF EXTR
222
AD DEC
VD DEC
212
PES PRC
221
VIDEO OUTPUT
211
AUDIO OUTPUT
20

FIG.16

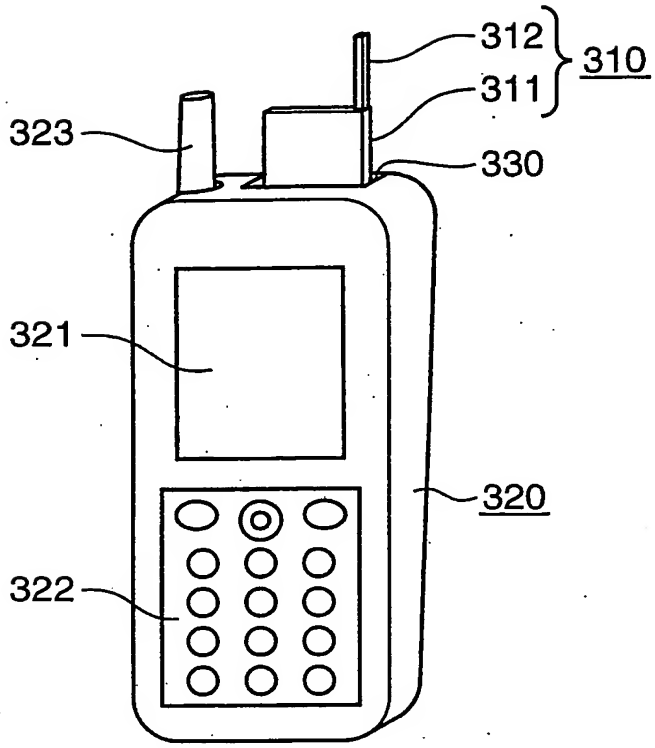
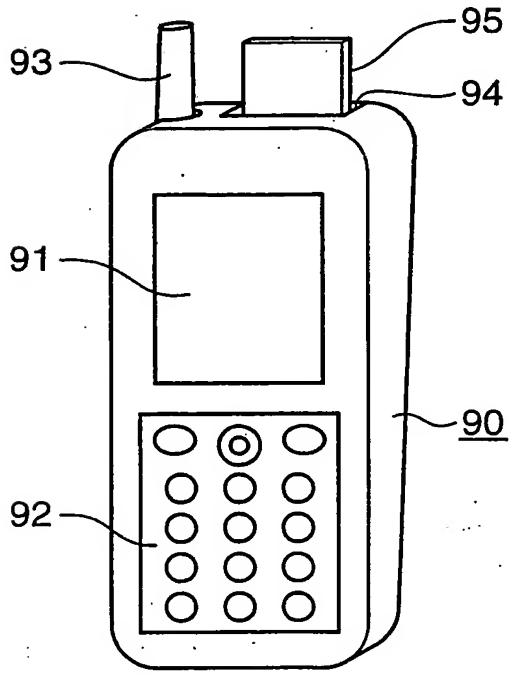
FIG.17